



## SEQUENCE LISTING

<110> Kloek, Andrew  
Williams, Deryck Jeremy  
Salmon, Brandy Leigh  
Bradley, John D.

<120> NEMATODE PGM-LIKE SEQUENCES

<130> 12557-003001

<140> US 10/082,894

<141> 2002-02-26

<150> US 60/271,781

<151> 2001-02-27

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<212> DNA

<213> Meloidogyne incognita PGM

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Val Cys Leu Val Val Ile Asp Gly Trp Gly Leu Ser Asp Glu Gln His	
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Gly Asn Ala Ile Ala Lys Ala Lys Thr Pro Ile Met Asp Lys Leu Cys	
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Ser Gly Asn Trp Gln Lys Leu Glu Ala His Gly Leu His Val Gly Leu	
45 50 55	
cca gaa ggc tta atg gga aat tct gaa gtt gga cat ttg aat ata gga	243
Pro Glu Gly Leu Met Gly Asn Ser Glu Val Gly His Leu Asn Ile Gly	
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gct gga aga gtt att tat caa gat att gtt cga att aat ttg gct gtt	291
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caa cga aac gag ttt gtt aca aat cct cag att gtt gca tca gct gag	339
Gln Arg Asn Glu Phe Val Thr Asn Pro Gln Ile Val Ala Ser Ala Glu	
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cgt gca aag aag ggg agt ggt cga ttg cat tta tta gga ctg gtt agc	387
Arg Ala Lys Lys Gly Ser Gly Arg Leu His Leu Leu Gly Leu Val Ser	
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Asp Gly Gly Val His Ser His Ile Asp His Leu Phe Ala Leu Ile Arg	
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Ala Phe Lys Gln Leu Gln Val Pro Lys Val Phe Ile His Phe Phe Ala	
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Asp Gly Arg Asp Thr Ser Pro Thr Ser Gly Ala Gly Tyr Leu Glu Gln	
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Leu Leu Gln Phe Ile Ala Ser Glu Lys Tyr Gly Glu Leu Ala Thr Ile	
175 180 185	
act gga cgt tat tat gca atg gat agg gac aaa aga tgg gag cgt att	627
Thr Gly Arg Tyr Tyr Ala Met Asp Arg Asp Lys Arg Trp Glu Arg Ile	
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Lys Met Ala Tyr Glu Ala Ile Val Gly Gly Ile Gly Gln Lys Ala Thr	
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Val Asp Lys Ala Val Asp Val Val Arg Glu Arg Tyr Ala Gln Ser Glu	
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act gac gaa ttt ctg aaa cca att gtt ttt tcg gac gat ggg cga gta	771
Thr Asp Glu Phe Leu Lys Pro Ile Val Phe Ser Asp Asp Gly Arg Val	
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aaa gat gac gat act ctt att ttc ttc aat tat cgt gct gat cgt atg	819
Lys Asp Asp Asp Thr Leu Ile Phe Phe Asn Tyr Arg Ala Asp Arg Met	
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cgt caa att tgt gaa tgt ttg ggt ctc gaa cgt tat aaa gat ctt aat	867
Arg Gln Ile Cys Glu Cys Leu Gly Leu Glu Arg Tyr Lys Asp Leu Asn	
270 275 280	
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Ser Ser Val Pro His Pro Lys Asn Ile Gln Ile Ser Gly Met Thr Gln	
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tac aat aaa gag ttt cca ttt cca tcg tta ttc cca cct gtg act cat	963
Tyr Asn Lys Glu Phe Pro Phe Pro Ser Leu Phe Pro Pro Val Thr His	
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act aat gtg ctt gct gaa tgg ctt gct tct caa gga gtt act caa ttt	1011
Thr Asn Val Leu Ala Glu Trp Leu Ala Ser Gln Gly Val Thr Gln Phe	
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His Cys Ala Glu Thr Glu Lys Tyr Pro His Val Thr Phe Phe Phe Asn	
335 340 345	
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Gly Gly Arg Glu Val Gln Phe Gln Asp Glu Glu Arg Cys Met Val Pro	
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Ser Pro Lys Glu Val Ala Thr Tyr Asp Leu Lys Pro Glu Met Asn Ala	
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Ala Gly Val Ala Glu Lys Met Val Glu Gln Ile Glu Ser Gly Arg His	
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Pro Leu Val Met Cys Asn Phe Ala Pro Pro Asp Met Val Gly His Thr	
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Gly Lys Phe Glu Pro Ala Val Lys Ala Cys Gln Ala Thr Asp Glu Ala	
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att gga aag ata ttt gaa gca tgc caa act tat aat tac gtt ctt atg	1347
Ile Gly Lys Ile Phe Glu Ala Cys Gln Thr Tyr Asn Tyr Val Leu Met	
430 435 440	
gtt act tcc gat cat gga aat gct gag aag atg att gct ccc gat ggt	1395
Val Thr Ser Asp His Gly Asn Ala Glu Lys Met Ile Ala Pro Asp Gly	
445 450 455	
agt gaa cat act gca cat acc tgc aat ttg gtc cca ttt act tgc tct	1443
Ser Glu His Thr Ala His Thr Cys Asn Leu Val Pro Phe Thr Cys Ser	
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Ser Lys Thr Phe Val Phe Lys Ser Thr Pro Pro Thr Gly Asp Asp Gly	
475 480 485 490	
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Lys Glu Arg Ala Arg Ala Leu Arg Asp Val Ala Pro Thr Val Leu Gln	
495 500 505	
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Leu Met Gly Leu Pro Val Pro Pro Glu Met Asp Gly Val Pro Leu Leu	
510 515 520	
gaa cag aga gga taagaagtta attgacaata ggaaataaat atgagctgct	1639
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<213> Meloidogyne incognita PGM

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Ala	Lys	Thr	Pro	Ile	Met	Asp	Lys	Leu	Cys	Ser	Gly	Asn	Trp	Gln	Lys
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Leu	Glu	Ala	His	Gly	Leu	His	Val	Gly	Leu	Pro	Glu	Gly	Leu	Met	Gly
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Asn	Ser	Glu	Val	Gly	His	Leu	Asn	Ile	Gly	Ala	Gly	Arg	Val	Ile	Tyr
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Gln	Asp	Ile	Val	Arg	Ile	Asn	Leu	Ala	Val	Gln	Arg	Asn	Glu	Phe	Val
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Thr	Asn	Pro	Gln	Ile	Val	Ala	Ser	Ala	Glu	Arg	Ala	Lys	Lys	Gly	Ser
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Trp	Leu	Ala	Ser	Gln	Gly	Val	Thr	Gln	Phe	His	Cys	Ala	Glu	Thr	Glu
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Lys	Tyr	Pro	His	Val	Thr	Phe	Phe	Phe	Asn	Gly	Gly	Arg	Glu	Val	Gln
			340					345					350		
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Thr	Tyr	Asp	Leu	Lys	Pro	Glu	Met	Asn	Ala	Ala	Gly	Val	Ala	Glu	Lys
370						375					380				

Met Val Glu Gln Ile Glu Ser Gly Arg His Pro Leu Val Met Cys Asn  
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 Phe Ala Pro Pro Asp Met Val Gly His Thr Gly Lys Phe Glu Pro Ala  
 405 410 415  
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 Ala Cys Gln Thr Tyr Asn Tyr Val Leu Met Val Thr Ser Asp His Gly  
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<212> PRT

<213> Caenorhabditis elegans PGM

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 65 70 75 80  
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 85 90 95  
 Arg Val Ile Tyr Gln Asp Ile Val Arg Ile Asn Leu Ala Val Lys Asn  
 100 105 110  
 Asn Lys Phe Val Thr Asn Glu Ser Leu Val Asp Ala Cys Asp Arg Ala  
 115 120 125  
 Lys Asn Gly Asn Gly Arg Leu His Leu Ala Gly Leu Val Ser Asp Gly  
 130 135 140  
 Gly Val His Ser His Ile Asp His Met Phe Ala Leu Val Lys Ala Ile  
 145 150 155 160  
 Lys Glu Leu Gly Val Pro Glu Leu Tyr Leu His Phe Tyr Gly Asp Gly  
 165 170 175  
 Arg Asp Thr Ser Pro Asn Ser Gly Val Gly Phe Leu Glu Gln Thr Leu  
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 Glu Phe Leu Glu Lys Thr Thr Gly Tyr Gly Lys Leu Ala Thr Val Val  
 195 200 205  
 Gly Arg Tyr Tyr Ala Met Asp Arg Asp Asn Arg Trp Glu Arg Ile Asn  
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 Val Ala Tyr Glu Ala Met Ile Gly Gly Val Gly Glu Thr Ser Asp Glu  
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 Ala Gly Val Val Glu Val Val Arg Lys Arg Tyr Ala Ala Asp Glu Thr  
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Lys	Asn	Val	Leu	Ala	Glu	Trp	Leu	Ala	Glu	Gln	Lys	Val	Ser	Gln	Phe
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Gly	Val	Ala	Asp	Lys	Met	Ile	Glu	Gln	Leu	Glu	Ala	Gly	Thr	His	Pro
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Phe	Ile	Met	Cys	Asn	Phe	Ala	Pro	Pro	Asp	Met	Val	Gly	His	Thr	Gly
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Pro	Gly	Phe	Lys	Phe	Val	Asp	Pro	Ala	Asp	Arg	His	Pro	Ala	Leu	Cys
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Asp	Val	Ala	Pro	Thr	Val	Leu	Ala	Ile	Met	Gly	Leu	Pro	Gln	Pro	Ala
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Glu	Met	Thr	Gly	Val	Ser	Ile	Val	Gln	Lys	Ile					
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&lt;211&gt; 526

&lt;212&gt; PRT

&lt;213&gt; Meloidogyne icognita PGM

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Ala	Lys	Thr	Pro	Ile	Met	Asp	Lys	Leu	Cys	Ser	Gly	Asn	Trp	Gln	Lys
		35					40					45			
Leu	Glu	Ala	His	Gly	Leu	His	Val	Gly	Leu	Pro	Glu	Gly	Leu	Met	Gly
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Gln	Asp	Ile	Val	Arg	Ile	Asn	Leu	Ala	Val	Gln	Arg	Asn	Glu	Phe	Val
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Thr	Asn	Pro	Gln	Ile	Val	Ala	Ser	Ala	Glu	Arg	Ala	Lys	Lys	Gly	Ser
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Gly	Arg	Leu	His	Leu	Leu	Gly	Leu	Val	Ser	Asp	Gly	Gly	Val	His	Ser
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His	Ile	Asp	His	Leu	Phe	Ala	Leu	Ile	Arg	Ala	Phe	Lys	Gln	Leu	Gln
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Val	Pro	Lys	Val	Phe	Ile	His	Phe	Phe	Ala	Asp	Gly	Arg	Asp	Thr	Ser
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Pro	Thr	Ser	Gly	Ala	Gly	Tyr	Leu	Glu	Gln	Leu	Leu	Gln	Phe	Ile	Ala
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Ser	Glu	Lys	Tyr	Gly	Glu	Leu	Ala	Thr	Ile	Thr	Gly	Arg	Tyr	Tyr	Ala
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Met	Asp	Arg	Asp	Lys	Arg	Trp	Glu	Arg	Ile	Lys	Met	Ala	Tyr	Glu	Ala
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Ile	Val	Gly	Gly	Ile	Gly	Gln	Lys	Ala	Thr	Val	Asp	Lys	Ala	Val	Asp
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Pro	Ile	Val	Phe	Ser	Asp	Asp	Gly	Arg	Val	Lys	Asp	Asp	Asp	Thr	Leu
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Ile	Phe	Phe	Asn	Tyr	Arg	Ala	Asp	Arg	Met	Arg	Gln	Ile	Cys	Glu	Cys
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Leu	Gly	Leu	Glu	Arg	Tyr	Lys	Asp	Leu	Asn	Ser	Ser	Val	Pro	His	Pro
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Phe	Pro	Ser	Leu	Phe	Pro	Pro	Val	Thr	His	Thr	Asn	Val	Leu	Ala	Glu
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Trp	Leu	Ala	Ser	Gln	Gly	Val	Thr	Gln	Phe	His	Cys	Ala	Glu	Thr	Glu
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Phe	Gln	Asp	Glu	Glu	Arg	Cys	Met	Val	Pro	Ser	Pro	Lys	Glu	Val	Ala
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Phe	Ala	Pro	Pro	Asp	Met	Val	Gly	His	Thr	Gly	Lys	Phe	Glu	Pro	Ala
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			420					425					430		
Ala	Cys	Gln	Thr	Tyr	Asn	Tyr	Val	Leu	Met	Val	Thr	Ser	Asp	His	Gly
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Asn	Ala	Glu	Lys	Met	Ile	Ala	Pro	Asp	Gly	Ser	Glu	His	Thr	Ala	His
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Thr	Cys	Asn	Leu	Val	Pro	Phe	Thr	Cys	Ser	Ser	Lys	Thr	Phe	Val	Phe
					470					475					480
Lys	Ser	Thr	Pro	Pro	Thr	Gly	Asp	Asp	Gly	Lys	Glu	Arg	Ala	Arg	Ala
				485					490					495	
Leu	Arg	Asp	Val	Ala	Pro	Thr	Val	Leu	Gln	Leu	Met	Gly	Leu	Pro	Val
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Pro	Pro	Glu	Met	Asp	Gly	Val	Pro	Leu	Leu	Glu	Gln	Arg	Gly		
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&lt;211&gt; 22

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

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<223> Vector polylinker primer

<400> 5

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22

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Vector polylinker primer

<400> 6

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20

<210> 7

<211> 50

<212> DNA

<213> Artificial Sequence

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<223> Universal primer to poly A tail

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<210> 8

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Nematode transpliced leader

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<212> DNA

<213> Artificial Sequence

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<223> Mi PGM (codon 234-239)

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gagactgacg aattttctg

18

<210> 10

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<212> DNA

<213> Artificial Sequence



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 <223> Mi PGM (codon 234-239)

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<210> 11  
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